Author Index
Volume 13

Alder, L. J. and Rock, S. M. Experiments in control of a flexible-link manipulator with unknown payload dynamics: An adaptive approach 13:6 pp. 481–495.

Alici, G. and Daniel, R. W. Static friction effects during hard-on-hard contact tasks and their implications for manipulator design 13:6 pp. 508–520.

Buehler, M., Koditschek, D. E. and Kindlmann, P. J. Planning and control of robotic juggling and catching tasks 13:2 pp. 101–118.

Chen, W. Z., Korde, U. A. and Skaar, S. B. Position control experiments using vision 13:3 pp. 199–208.

Chevallier, D. P. and Payandeh, S. On computing the friction forces associated with three-fingered grasp 13:2 pp. 119–126.

DeSantis, R. M. Path tracking for a tractor-trailer–like robot 13:6 pp. 533–544.

Deveza, R., Thiel, D., Russell, A. and Mackay-Sim, A. Odor sensing for robot guidance 13:3 pp. 232–239.

Eberman, B. and Salisbury, J. K. Application of change detection to dynamic contact sensing 13:5 pp. 369–394.

Edwards, C. A. and Galloway, R. L. A single-point calibration technique for a six-degree-of-freedom articulated arm 13:3 pp. 189–198.

Erdmann, M. On a representation of friction in configuration space 13:3 pp. 240–271.

Fernandes, C., Gurvits, L. and Li, Z. Attitude control of a space platform/manipulator system using internal motion 13:4 pp. 289–304.

Fujimura, K. Motion planning amid transient obstacles 13:5 pp. 395–407.

Giusti, R. and Tucci, M. Improving active accident prevention in robotized manufacturing plants 13:4 pp. 334–342.

Grishin, A. A., Formal'sky, A. M., Lensky, A. V. and Zhitomirsky, S. V. Dynamic walking of a vehicle with two telescopic legs controlled by two drives 13:2 pp. 137–147.

Hurmulzlu, Y. and Marghitu, D. B. Rigid body collisions of planar kinematic chains with multiple contact points 13:1 pp. 82–92.

Imura, J., Sugie, T., Yokokohji, Y. and Yoshikawa, T. Robust control of robot manipulators based on joint torque sensor information 13:5 pp. 434–442.

Jing, H. W. Two arms are faster than one 13:4 pp. 364–368.

Levesque, B. and Richard, M. J. Dynamic analysis of manipulator in a fluid environment 13:3 pp. 221–231.

Lin, J. and Lewis, F. L. A symbolic formulation of dynamic equations for a manipulator with rigid and flexible links 13:5 pp. 454–470.

Liu, Y. and Popplestone, R. A group theoretic formalization of surface contact 13:2 pp. 148–161.

Luecke, G. R. and Gardner, J. F. Experimental results for force distribution in cooperating manipulator systems using local joint control 13:6 pp. 471–480.

Merlet, J.-P. Trajectory verification in the workspace for parallel manipulators 14:4 pp. 326–333.

Nagy, P. V., Desa, S. and Whittaker, W. L. Energy-based stability measures for reliable locomotion of statically stable walkers: Theory and application 13:3 pp. 272–287.

Nair, R. and Maddocks, J. H. On the forward kinematics of one-link flexible manipulators 13:2 pp. 171–188.

Panagiotopoulos, P. D. and Al-Fahed, A. M. Robot hand grasping and related problems: Optimal control and identification 13:2 pp. 127–136.

Papageorgiou, M. and Bauschert, T. Stochastic optimal control of moving vehicles in a dynamic environment 13:4 pp. 343–354.

Park, F. C. and Brockett, R. W. Kinematic dexterity of robotic mechanisms 13:1 pp. 1–15.

Qu, A., Dawson, D. M., Lim, S. Y. and Dorsey, J. F. A new class of robust control laws for tracking of robots 13:4 pp. 355–363.

Rao, A. S. and Goldberg, K. Y. Shape from diameter: Recognizing polygonal parts with a parallel-jaw gripper 13:1 pp. 16–37.

Reister, D. B. and Pin, F. G. Time-optimal trajectories for mobile robots with two independently driven wheels 13:1 pp. 38–54.

Roberts, R. G. and Maciejewski, A. A. Singularities, stable surfaces, and the repeatable behavior of kinematically redundant manipulators 13:1 pp. 70–81.

Rowe, N. C. and Kanayama, Y. Near-minimum energy paths on a verticle-axis cone with anisotropic friction and gravity effects 13:5 pp. 408–433.

Sarkar, N., Yun, X. and Kumar, V. Control of mechanical systems with rolling constraints: Application to dynamic control of mobile robots 13:1 pp. 55–69.
Urban, J. P., Motyl, G. and Gallice, J. Real-time visual servoing using controlled illumination 13:1 pp. 93–100.
Vineze, M., Prenninger, J. P. and Gander, H. A laser tracking system to measure position and orientation of robot end effectors under motion 13:4 pp. 305–314.
Wang, F.-Y. On the extremal fundamental frequencies of one-link flexible manipulators 13:2 pp. 162–170.
Wiens, G. J. and Jang, W.-M. Passive joint control of dynamic coupling in mobile robots 13:3 pp. 209–220.
Xi, F and Fenton, R. G. Coupling effect of a flexible link and flexible joint 13:5 pp. 443–453.
Yang, H. S. and Slotine, J.-J. E. Fast algorithms for near-minimum-time control of robot manipulators 13:6 pp. 521–532.
Zelinsky, A. Using path transforms to guide the search for findpath in 2D 13:4 pp. 315–325.